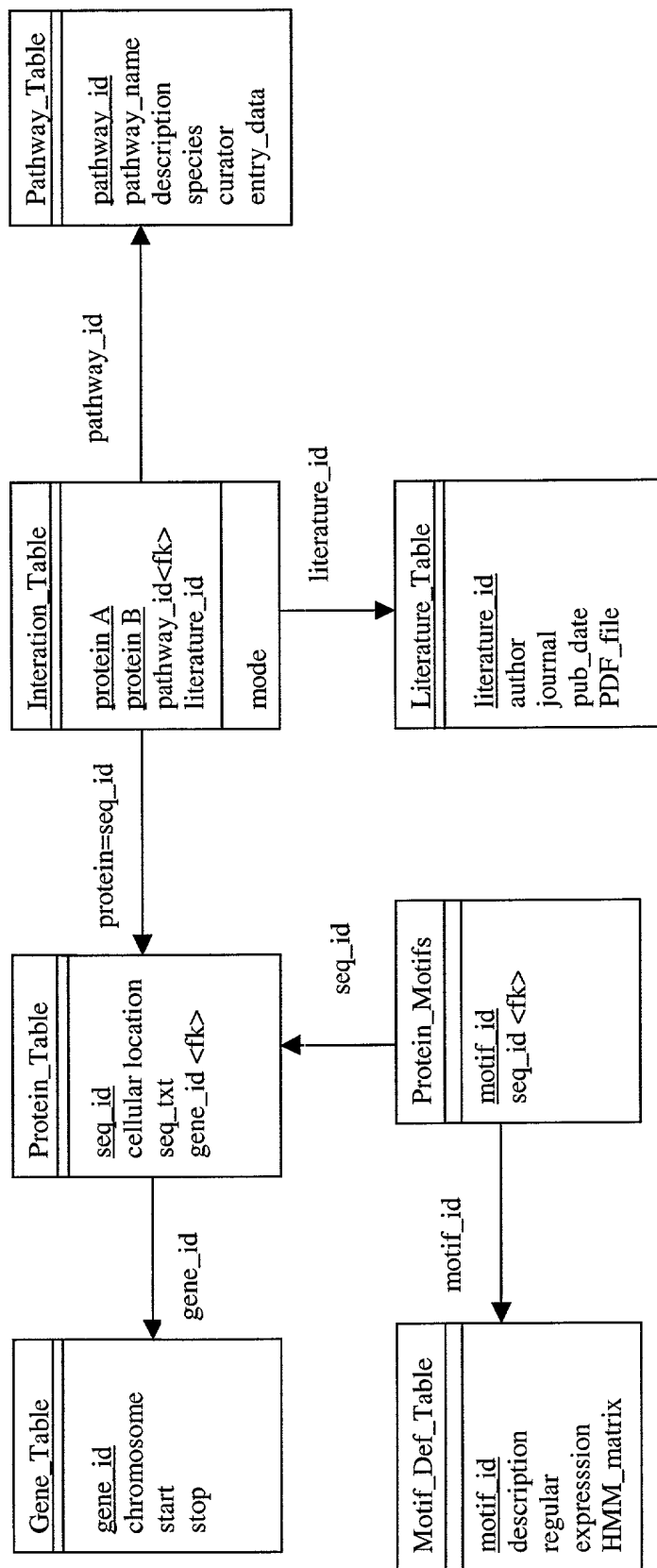
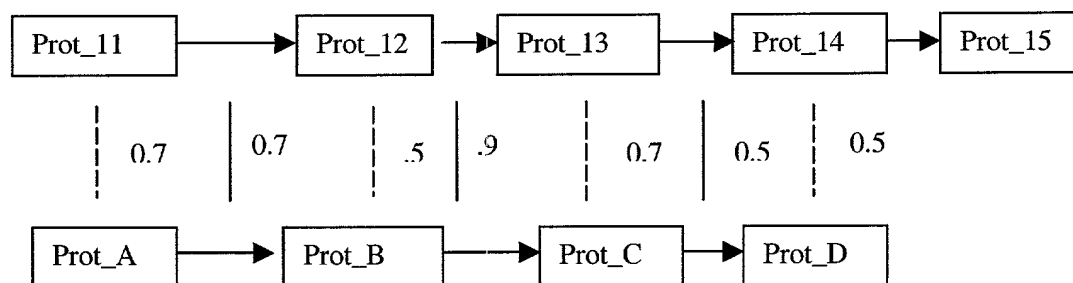


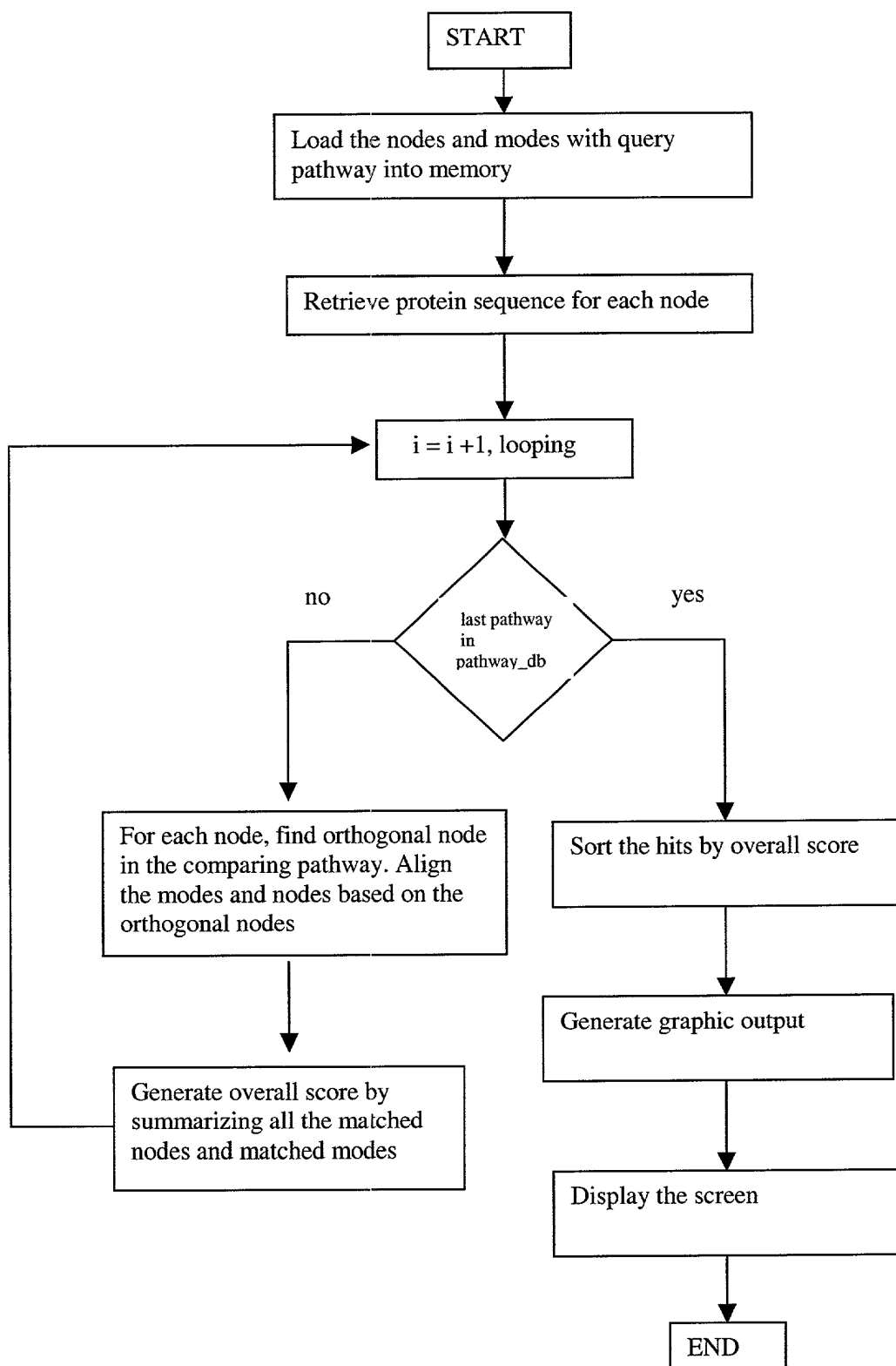
**Figure 1**



**Figure 2**

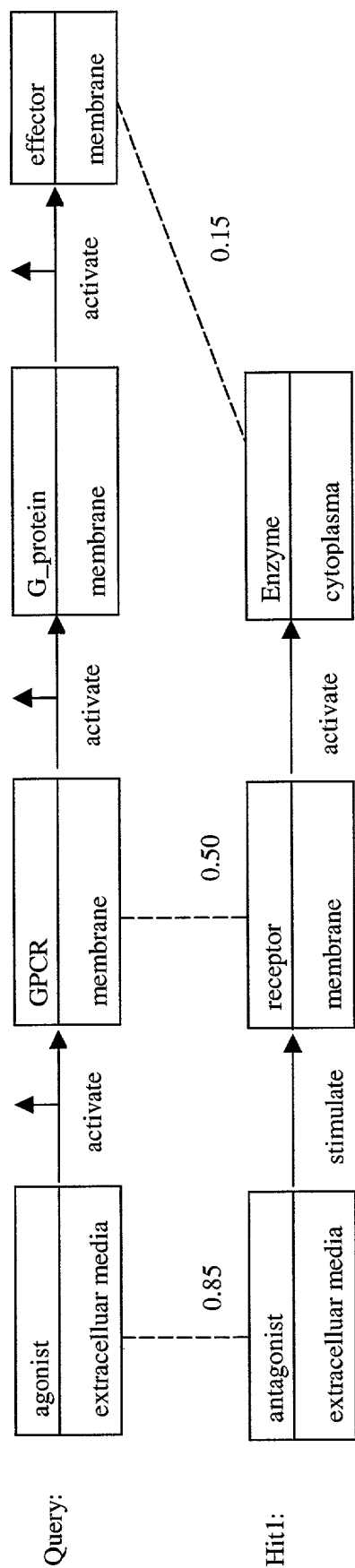


**Figure 3**



**Figure 4**

A



B

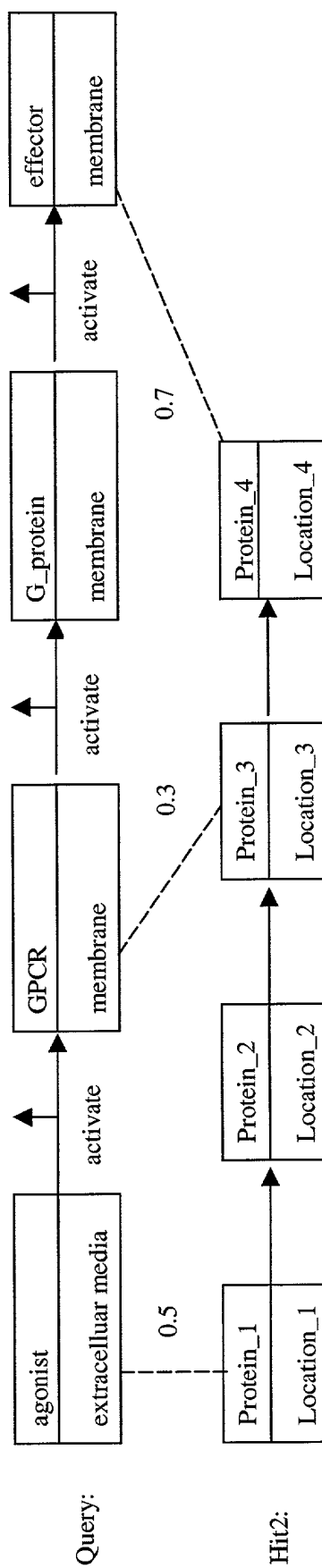
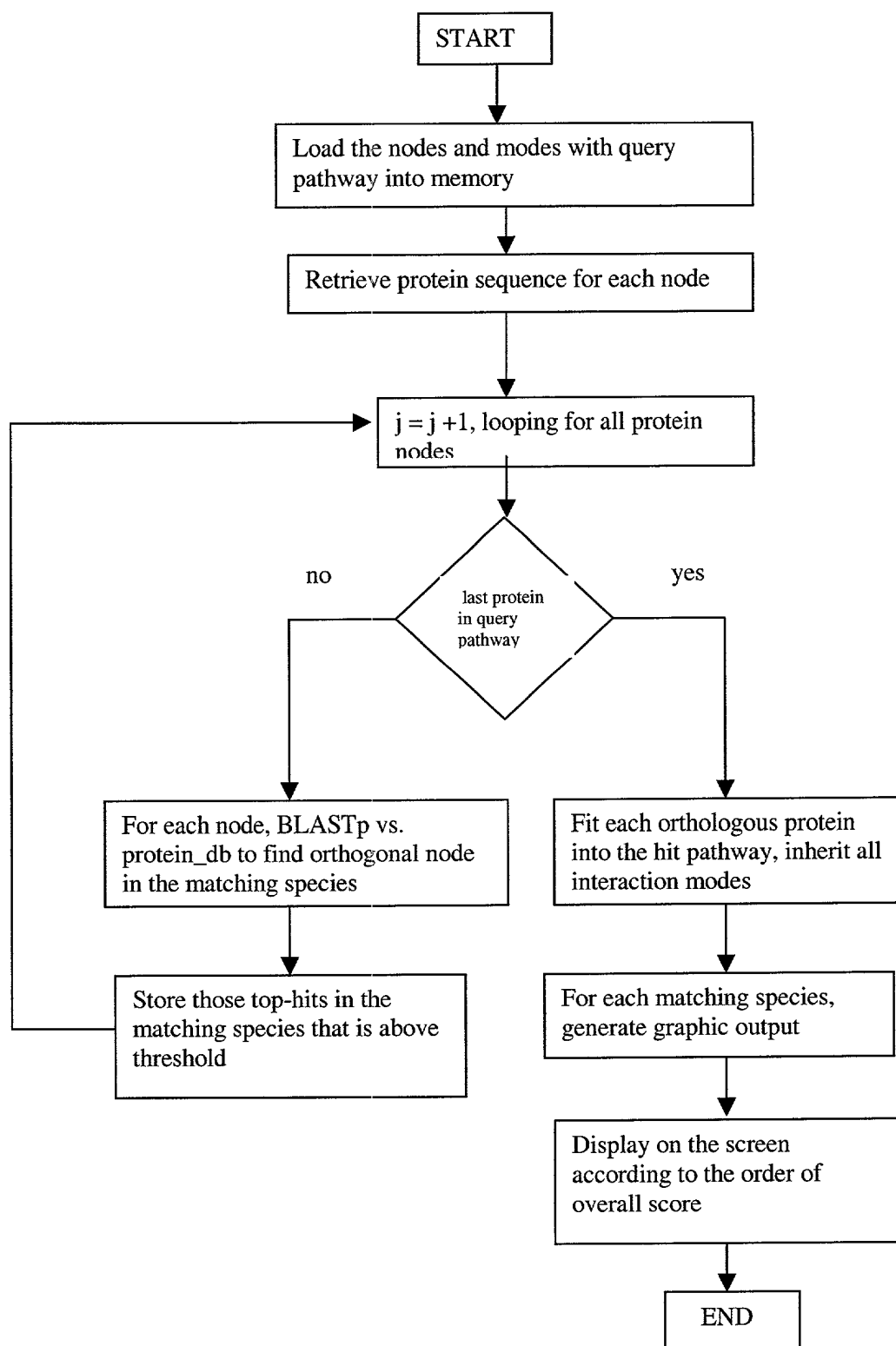
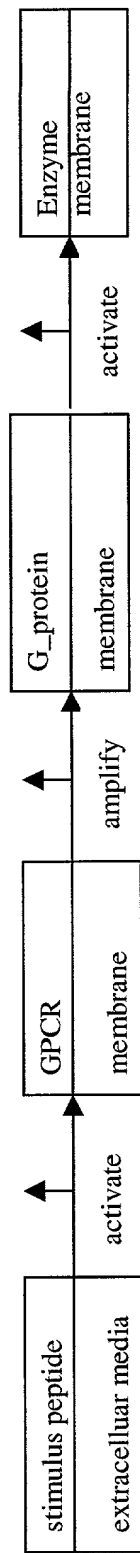


Figure 5



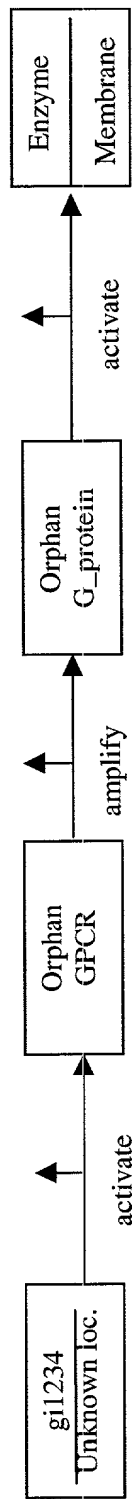
**Figure 6**

**A). Query pathway. Species: Homo sapiens**

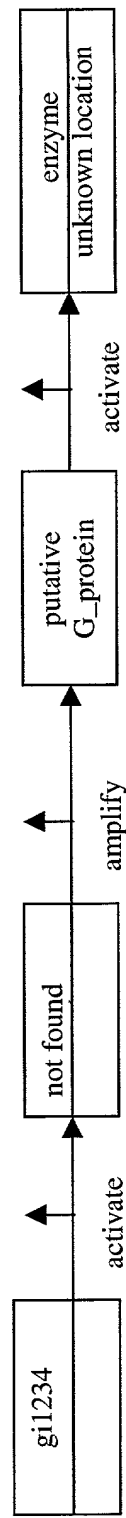


**B). Outputs**

**Orthologous pathway 1. Species: Mus musculus**



**Orthologous pathway 2. Species: Saccharomyces cerevisiae**



**Figure 7**

seq-id seq-id	seq <sub>1</sub> seq <sub>2</sub> ..... seq <sub>n-1</sub> seq <sub>n</sub>
seq <sub>1</sub>	1
seq <sub>2</sub>	0.5 1
.	
.	
.	
.	
.	
.	
.	
seq <sub>n-1</sub>	1 0.25
seq <sub>n</sub>	0.25 1

Figure 8



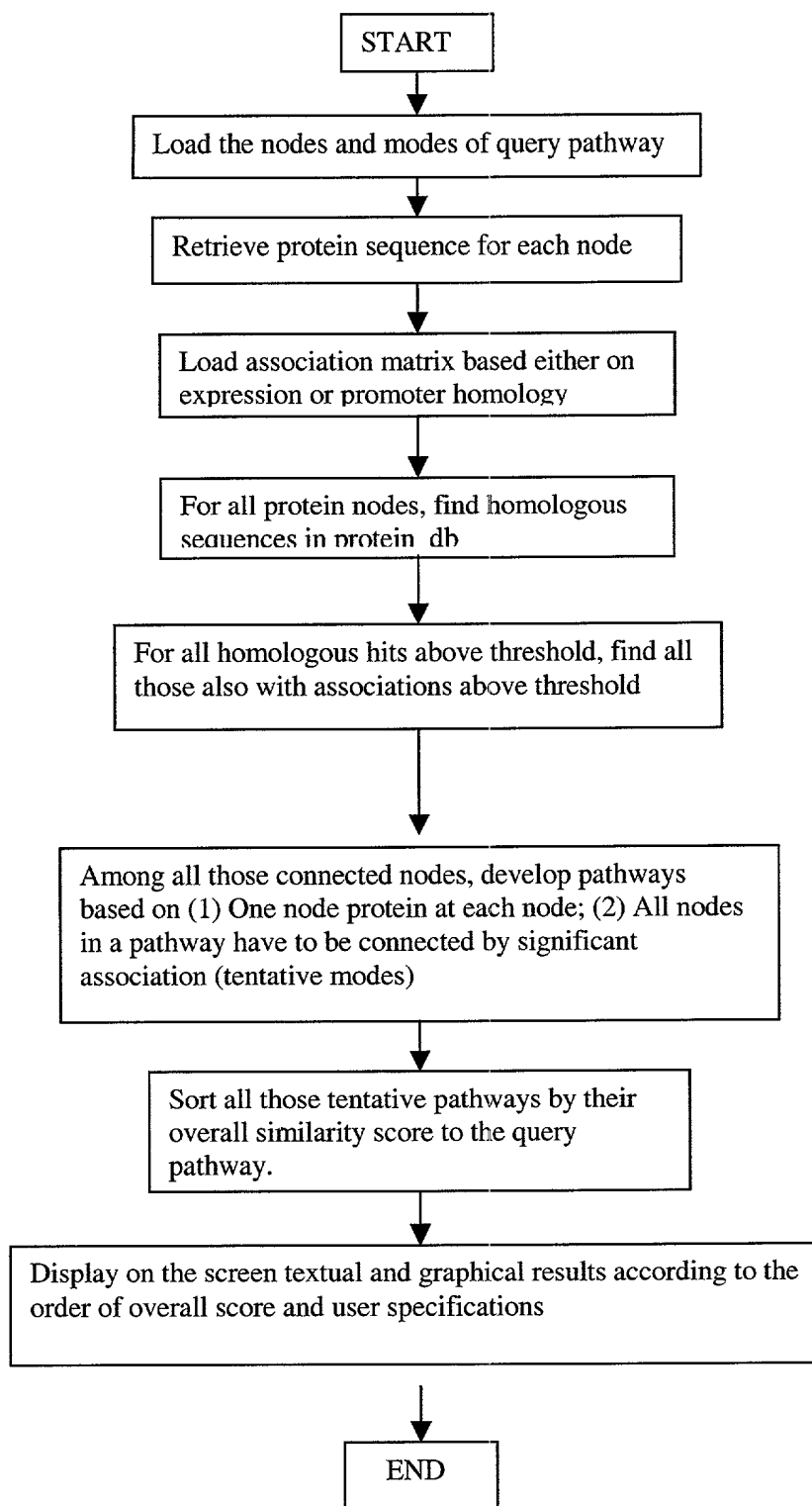


Figure 9

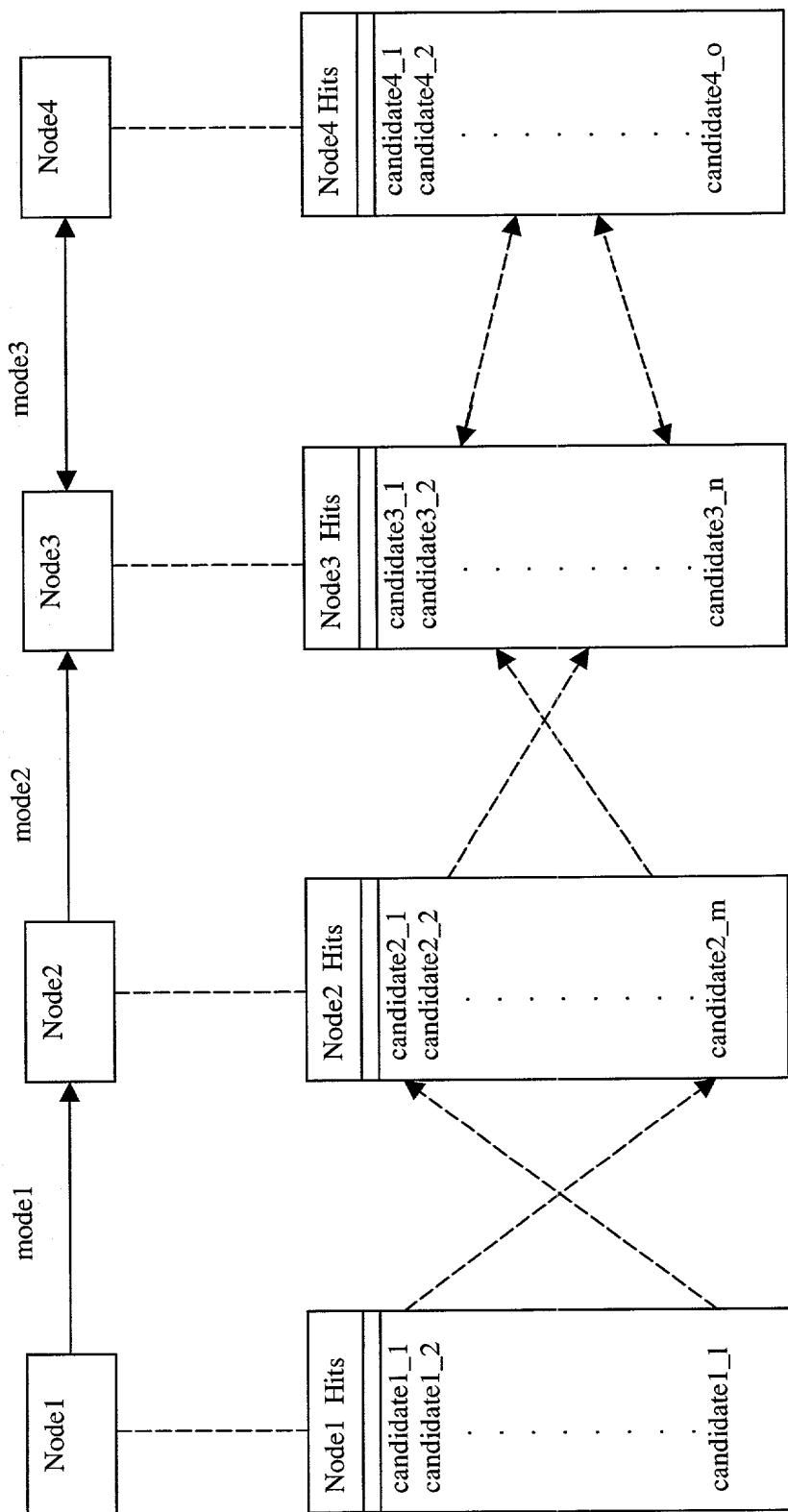
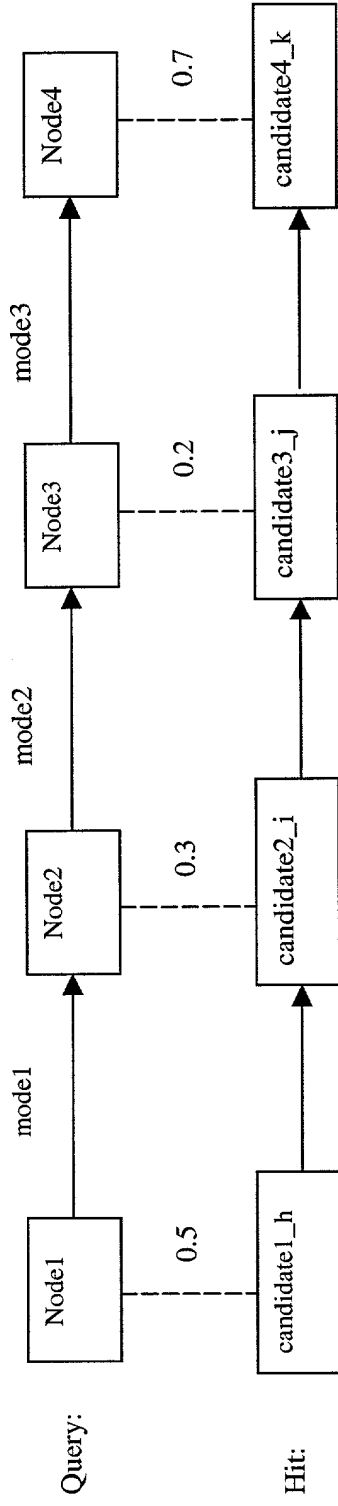


Figure 10A

Hit1



Hit2

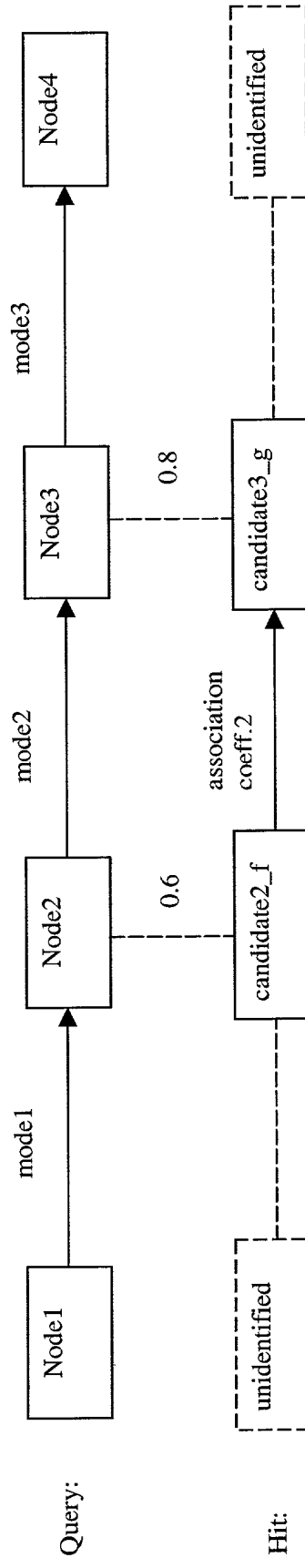


Figure 10B